

<110> INCYTE CORPORATION; Jiang, Xin;
Becha, Shanya D.; BULLOCH, Sean A.;
CHANG, Hsin-Ru; CHAWLA, Narinder K.;
ELLIOTT, Vicki S.; EMERLING, Brooke M.;
GIETZEN, Kimberly J.; HAFALIA, April J.A.;
JACKSON, Alan A.; KABLE, Amy E.;
KHARE, Reena; LEE, Soo Yeun;
MARQUIS, Joseph P.; MURAGE, Jaji;
SWARNAKAR, Anita; YANG, Yonghong G.

<120> LIPID-ASSOCIATED MOLECULES

<130> PF-1618 PCT

<140> To Be Assigned
<141> Herewith

<150> US 60/426,105
<151> 2002-11-13

<150> US 60/433,215
<151> 2002-12-12

<150> US 60/453,127
<151> 2003-03-07

<150> US 60/454,801
<151> 2003-03-13

<150> US 60/465,619
<151> 2003-04-24

<150> US 60/465,495
<151> 2003-04-24

<150> US 60/491,800
<151> 2003-08-01

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Gly Thr Ala Trp Ala Arg Arg Ser Gln Asp Leu His Cys Gly Ala
20 25 30
Cys Arg Ala Leu Val Asp Glu Leu Glu Trp Glu Ile Ala Gln Val
35 40 45
Asp Pro Lys Lys Thr Ile Gln Met Gly Ser Phe Arg Ile Asn Pro
50 55 60
Asp Gly Ser Gln Ser Val Val Glu Cys Glu Ser Ile Val Glu Glu
65 70 75
Tyr Glu Asp Glu Leu Ile Glu Phe Phe Ser Arg Glu Ala Asp Asn
80 85 90

| | | | |
|---|-----|-----|--|
| Val Lys Asp Lys Leu Cys Ser Lys Arg Thr Asp Leu Cys Asp His | | | |
| 95 | 100 | 105 | |
| Ala Leu His Ile Ser His Asp Glu Leu | | | |
| 110 | | | |

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| Met Gly Thr Arg Leu Leu Pro Ala Leu Phe Leu Val Leu Leu Val | | | |
| 1 5 10 15 | | | |
| Leu Gly Phe Glu Val Gln Gly Thr Gln Gln Pro Gln Gln Asp Glu | | | |
| 20 25 30 | | | |
| Met Pro Ser Pro Thr Phe Leu Thr Gln Val Lys Glu Ser Leu Ser | | | |
| 35 40 45 | | | |
| Ser Tyr Trp Glu Ser Ala Lys Thr Ala Ala Gln Asn Leu Asp Leu | | | |
| 50 55 60 | | | |
| Tyr Ser Lys Ser Thr Ala Ala Met Ser Thr Tyr Thr Gly Ile Phe | | | |
| 65 70 75 | | | |
| Thr Asp Gln Val Leu Ser Val Leu Lys Gly Glu Glu | | | |
| 80 85 | | | |

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<400> 3

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| Met Ala Glu Ser His Leu Leu Gln Trp Leu Leu Leu Leu Pro | | | |
| 1 5 10 15 | | | |
| Thr Leu Cys Gly Pro Gly Thr Ala Ala Trp Thr Thr Ser Ser Leu | | | |
| 20 25 30 | | | |
| Ala Cys Ala Gln Gly Pro Glu Phe Trp Cys Gln Ser Leu Glu Gln | | | |
| 35 40 45 | | | |
| Ala Leu Gln Cys Arg Ala Leu Gly His Cys Leu Gln Glu Val Trp | | | |
| 50 55 60 | | | |
| Gly His Val Gly Ala Asp Leu Ser Glu Gln Gln Phe Pro Ile Pro | | | |
| 65 70 75 | | | |
| Leu Pro Tyr Cys Trp Leu Cys Arg Ala Leu Ile Lys Arg Ile Gln | | | |
| 80 85 90 | | | |
| Ala Met Ile Pro Lys Gly Ala Leu Ala Val Ala Val Ala Gln Val | | | |
| 95 100 105 | | | |
| Cys Arg Val Val Pro Leu Val Ala Gly Gly Ile Cys Gln Cys Leu | | | |
| 110 115 120 | | | |
| Ala Glu Arg Tyr Ser Val Ile Leu Leu Asp Thr Leu Leu Gly Arg | | | |
| 125 130 135 | | | |
| Met Leu Pro Gln Leu Val Cys Arg Leu Val Leu Arg Cys Ser Met | | | |
| 140 145 150 | | | |
| Asp Asp Ser Ala Gly Pro Arg Glu Trp Leu Pro Arg Asp Ser Glu | | | |
| 155 160 165 | | | |
| Cys His Leu Cys Met Ser Val Thr Thr Gln Ala Gly Asn Ser Ser | | | |
| 170 175 180 | | | |
| Glu Gln Ala Ile Pro Gln Ala Met Leu Gln Ala Cys Val Gly Ser | | | |

| | | |
|-------------------------------------|---------------------|-----|
| 185 | 190 | 195 |
| Trp Leu Asp Arg Glu Lys Cys Lys Gln | Phe Val Glu Gln His | Thr |
| 200 | 205 | 210 |
| Pro Gln Leu Leu Thr Leu Val Pro Arg | Gly Trp Asp Ala His | Thr |
| 215 | 220 | 225 |
| Thr Cys Gln Ala Leu Gly Val Cys Gly | Thr Met Ser Ser Pro | Leu |
| 230 | 235 | 240 |
| Gln Cys Ile His Ser Pro Asp Leu | | |
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<210> 4

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<213> Homo sapiens

<220>

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<400> 4

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| 1 | 5 | 10 | 15 |
| Ala Pro Ser Asp Ala Glu Val Leu His Leu Cys Arg Ser Leu Glu | | | |
| 20 | 25 | 30 | |
| Val Gly Thr Val Met Thr Leu Phe Tyr Ser Lys Lys Ser Gln Arg | | | |
| 35 | 40 | 45 | |
| Pro Glu Arg Lys Thr Phe Gln Val Lys Leu Glu Thr Arg Gln Ile | | | |
| 50 | 55 | 60 | |
| Thr Trp Ser Arg Gly Ala Asp Lys Ile Glu Gly Ala Ile Asp Ile | | | |
| 65 | 70 | 75 | |
| Arg Glu Ile Lys Glu Ile Arg Pro Gly Lys Thr Ser Arg Asp Phe | | | |
| 80 | 85 | 90 | |
| Asp Arg Tyr Gln Glu Asp Pro Ala Phe Arg Pro Asp Gln Ser His | | | |
| 95 | 100 | 105 | |
| Cys Phe Val Ile Leu Tyr Gly Met Glu Phe Arg Leu Lys Thr Leu | | | |
| 110 | 115 | 120 | |
| Ser Leu Gln Ala Thr Ser Glu Asp Glu Val Asn Met Trp Ile Lys | | | |
| 125 | 130 | 135 | |
| Gly Leu Thr Trp Leu Met Glu Asp Thr Leu Gln Ala Pro Thr Pro | | | |
| 140 | 145 | 150 | |
| Leu Gln Ile Glu Arg Trp Leu Arg Lys Gln Phe Tyr Ser Val Asp | | | |
| 155 | 160 | 165 | |
| Arg Asn Arg Glu Asp Arg Ile Ser Ala Lys Asp Leu Lys Asn Met | | | |
| 170 | 175 | 180 | |
| Leu Ser Gln Val Asn Tyr Arg Val Pro Asn Met Arg Phe Leu Arg | | | |
| 185 | 190 | 195 | |
| Glu Arg Leu Thr Asp Leu Glu Gln Arg Ser Gly Asp Ile Thr Tyr | | | |
| 200 | 205 | 210 | |
| Gly Gln Phe Ala Gln Leu Tyr Arg Ser Leu Met Tyr Ser Ala Gln | | | |
| 215 | 220 | 225 | |
| Lys Thr Met Asp Leu Pro Phe Leu Glu Ala Ser Thr Leu Arg Ala | | | |
| 230 | 235 | 240 | |
| Gly Glu Arg Pro Glu Leu Cys Arg Val Ser Leu Pro Glu Phe Gln | | | |
| 245 | 250 | 255 | |
| Gln Phe Leu Leu Asp Tyr Gln Gly Glu Leu Trp Ala Val Asp Arg | | | |
| 260 | 265 | 270 | |
| Leu Gln Val Gln Glu Phe Met Leu Ser Phe Leu Arg Asp Pro Leu | | | |
| 275 | 280 | 285 | |
| Arg Glu Ile Glu Glu Pro Tyr Phe Phe Leu Asp Glu Phe Val Thr | | | |
| 290 | 295 | 300 | |
| Phe Leu Phe Ser Lys Glu Asn Ser Val Trp Asn Ser Gln Leu Asp | | | |
| 305 | 310 | 315 | |
| Ala Val Cys Pro Asp Thr Met Asn Asn Pro Leu Ser His Tyr Trp | | | |

| | | | | | |
|-------------------------------------|-----|-------------------------|-----|--|-----|
| | 320 | | 325 | | 330 |
| Ile Ser Ser Ser His Asn Thr Tyr Leu | | Thr Gly Asp Gln Phe Ser | | | |
| 335 | | 340 | | | 345 |
| Ser Glu Ser Ser Leu Glu Ala Tyr Ala | | Arg Cys Leu Arg Met Gly | | | |
| 350 | | 355 | | | 360 |
| Cys Arg Cys Ile Glu Leu Asp Cys Trp | | Asp Gly Pro Asp Gly Met | | | |
| 365 | | 370 | | | 375 |
| Pro Val Ile Tyr His Gly His Thr Leu | | Thr Thr Lys Ile Lys Phe | | | |
| 380 | | 385 | | | 390 |
| Ser Asp Val Leu His Thr Ile Lys Glu | | His Ala Phe Val Ala Ser | | | |
| 395 | | 400 | | | 405 |
| Glu Tyr Pro Val Ile Leu Ser Ile Glu | | Asp His Cys Ser Ile Ala | | | |
| 410 | | 415 | | | 420 |
| Gln Gln Arg Asn Met Ala Gln Tyr Phe | | Lys Lys Val Leu Gly Asp | | | |
| 425 | | 430 | | | 435 |
| Thr Leu Leu Thr Lys Pro Val Glu Ile | | Ser Ala Asp Gly Leu Pro | | | |
| 440 | | 445 | | | 450 |
| Ser Pro Asn Gln Leu Lys Arg Lys Ile | | Ile Lys His Lys Lys | | | |
| 455 | | 460 | | | 465 |
| Leu Ala Glu Gly Ser Ala Tyr Glu Glu | | Val Pro Thr Ser Met Met | | | |
| 470 | | 475 | | | 480 |
| Tyr Ser Glu Asn Asp Ile Ser Asn Ser | | Ile Lys Asn Gly Ile Leu | | | |
| 485 | | 490 | | | 495 |
| Tyr Leu Glu Asp Pro Val Asn His Glu | | Trp Tyr Pro His Tyr Phe | | | |
| 500 | | 505 | | | 510 |
| Val Leu Thr Ser Ser Lys Ile Tyr Tyr | | Ser Glu Glu Thr Ser Ser | | | |
| 515 | | 520 | | | 525 |
| Asp Gln Gly Asn Glu Asp Glu Glu Glu | | Pro Lys Glu Val Ser Ser | | | |
| 530 | | 535 | | | 540 |
| Ser Thr Glu Leu His Ser Asn Glu Lys | | Trp Phe His Gly Lys Leu | | | |
| 545 | | 550 | | | 555 |
| Gly Ala Gly Arg Asp Gly Arg His Ile | | Ala Glu Arg Leu Leu Thr | | | |
| 560 | | 565 | | | 570 |
| Glu Tyr Cys Ile Glu Thr Gly Ala Pro | | Asp Gly Ser Phe Leu Val | | | |
| 575 | | 580 | | | 585 |
| Arg Glu Ser Glu Thr Phe Val Gly Asp | | Tyr Thr Leu Ser Phe Trp | | | |
| 590 | | 595 | | | 600 |
| Arg Asn Gly Lys Val Gln His Cys Arg | | Ile His Ser Arg Gln Asp | | | |
| 605 | | 610 | | | 615 |
| Ala Gly Thr Pro Lys Phe Phe Leu Thr | | Asp Asn Leu Val Phe Asp | | | |
| 620 | | 625 | | | 630 |
| Ser Leu Tyr Asp Leu Ile Thr His Tyr | | Gln Gln Val Pro Leu Arg | | | |
| 635 | | 640 | | | 645 |
| Cys Asn Glu Phe Glu Met Arg Leu Ser | | Glu Pro Val Pro Gln Thr | | | |
| 650 | | 655 | | | 660 |
| Asn Ala His Glu Ser Lys Glu Trp Tyr | | His Ala Ser Leu Thr Arg | | | |
| 665 | | 670 | | | 675 |
| Ala Gln Ala Glu His Met Leu Met Arg | | Val Pro Arg Asp Gly Ala | | | |
| 680 | | 685 | | | 690 |
| Phe Leu Val Arg Lys Arg Asn Glu Pro | | Asn Ser Tyr Ala Ile Ser | | | |
| 695 | | 700 | | | 705 |
| Phe Arg Ala Glu Gly Lys Ile Lys His | | Cys Arg Val Gln Gln Glu | | | |
| 710 | | 715 | | | 720 |
| Gly Gln Thr Val Met Leu Gly Asn Ser | | Glu Phe Asp Ser Leu Val | | | |
| 725 | | 730 | | | 735 |
| Asp Leu Ile Ser Tyr Tyr Glu Lys His | | Pro Leu Tyr Arg Lys Met | | | |
| 740 | | 745 | | | 750 |
| Lys Leu Arg Tyr Pro Ile Asn Glu Glu | | Ala Leu Glu Lys Ile Gly | | | |
| 755 | | 760 | | | 765 |
| Thr Ala Glu Pro Asp Tyr Gly Ala Leu | | Tyr Glu Gly Arg Asn Pro | | | |
| 770 | | 775 | | | 780 |
| Gly Phe Tyr Val Glu Ala Asn Pro Met | | Pro Thr Phe Lys Cys Ala | | | |
| 785 | | 790 | | | 795 |

Val Lys Ala Leu Phe Asp Tyr Lys Ala Gln Arg Glu Asp Glu Leu
 800 805 810
 Thr Phe Ile Lys Ser Ala Ile Ile Gln Asn Val Glu Lys Gln Glu
 815 820 825
 Gly Gly Trp Trp Arg Gly Asp Tyr Gly Gly Lys Lys Gln Leu Trp
 830 835 840
 Phe Pro Ser Asn Tyr Val Glu Glu Met Val Asn Pro Val Ala Leu
 845 850 855
 Glu Pro Glu Arg Glu His Leu Asp Glu Asn Ser Pro Leu Gly Asp
 860 865 870
 Leu Leu Arg Gly Val Leu Asp Val Pro Ala Cys Gln Ile Ala Trp
 875 880 885
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 890 895 900
 Arg Ser Cys Arg Thr Gly
 905

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<213> Homo sapiens

<220>
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Ala Pro Ser Asp Ala Glu Val Leu His Leu Cys Arg Ser Leu Glu
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Val Gly Thr Val Met Thr Leu Phe Tyr Ser Lys Lys Ser Gln Arg
 35 40 45
Pro Glu Arg Lys Thr Phe Gln Val Lys Leu Glu Thr Arg Gln Ile
 50 55 60
Thr Trp Ser Arg Gly Ala Asp Lys Ile Glu Gly Ala Ile Asp Ile
 65 70 75
Arg Glu Ile Lys Glu Ile Arg Pro Gly Lys Thr Ser Arg Asp Phe
 80 85 90
Asp Arg Tyr Gln Glu Asp Pro Ala Phe Arg Pro Asp Gln Ser His
 95 100 105
Cys Phe Val Ile Leu Tyr Gly Met Glu Phe Arg Leu Lys Thr Leu
 110 115 120
Ser Leu Gln Ala Thr Ser Glu Asp Glu Val Asn Met Trp Ile Lys
 125 130 135
Gly Leu Thr Trp Leu Met Glu Asp Thr Leu Gln Ala Pro Thr Pro
 140 145 150
Leu Gln Ile Glu Arg Trp Leu Arg Lys Gln Phe Tyr Ser Val Asp
 155 160 165
Arg Asn Arg Glu Asp Arg Ile Ser Ala Lys Asp Leu Lys Asn Met
 170 175 180
Leu Ser Gln Val Asn Tyr Arg Val Pro Asn Met Arg Phe Leu Arg
 185 190 195
Glu Arg Leu Thr Asp Leu Glu Gln Arg Ser Gly Asp Ile Thr Tyr
 200 205 210
Gly Gln Phe Ala Gln Leu Tyr Arg Ser Leu Met Tyr Ser Ala Gln
 215 220 225
Lys Thr Met Asp Leu Pro Phe Leu Glu Ala Ser Thr Leu Arg Ala
 230 235 240
Gly Glu Arg Pro Glu Leu Cys Arg Val Ser Leu Pro Glu Phe Gln
 245 250 255
Gln Phe Leu Leu Asp Tyr Gln Gly Glu Leu Trp Ala Val Asp Arg
 260 265 270

Leu Gln Val Gln Glu Phe Met Leu Ser Phe Leu Arg Asp Pro Leu
 275 280 285
 Arg Glu Ile Glu Glu Pro Tyr Phe Phe Leu Asp Glu Phe Val Thr
 290 295 300
 Phe Leu Phe Ser Lys Glu Asn Ser Val Trp Asn Ser Gln Leu Asp
 305 310 315
 Ala Val Cys Pro Asp Thr Met Asn Asn Pro Leu Ser His Tyr Trp
 320 325 330
 Ile Ser Ser Ser His Asn Thr Tyr Leu Thr Gly Asp Gln Phe Ser
 335 340 345
 Ser Glu Ser Ser Leu Glu Ala Tyr Ala Arg Cys Leu Arg Met Gly
 350 355 360
 Cys Arg Cys Ile Glu Leu Asp Cys Trp Asp Gly Pro Asp Gly Met
 365 370 375
 Pro Val Ile Tyr His Gly His Thr Leu Thr Thr Lys Ile Lys Phe
 380 385 390
 Ser Asp Val Leu His Thr Ile Lys Glu His Ala Phe Val Ala Ser
 395 400 405
 Glu Tyr Pro Val Ile Leu Ser Ile Glu Asp His Cys Ser Ile Ala
 410 415 420
 Gln Gln Arg Asn Met Ala Gln Tyr Phe Lys Lys Val Leu Gly Asp
 425 430 435
 Thr Leu Leu Thr Lys Pro Val Glu Ile Ser Ala Asp Gly Leu Pro
 440 445 450
 Ser Pro Asn Gln Leu Lys Arg Lys Ile Leu Ile Lys His Lys Lys
 455 460 465
 Leu Ala Glu Gly Ser Ala Tyr Glu Glu Val Pro Thr Ser Met Met
 470 475 480
 Tyr Ser Glu Asn Asp Ile Ser Asn Ser Ile Lys Asn Gly Ile Leu
 485 490 495
 Tyr Leu Glu Asp Pro Val Asn His Glu Trp Tyr Pro His Tyr Phe
 500 505 510
 Val Leu Thr Ser Ser Lys Ile Tyr Tyr Ser Glu Glu Thr Ser Ser
 515 520 525
 Asp Gln Gly Asn Glu Asp Glu Glu Glu Pro Lys Glu Val Ser Ser
 530 535 540
 Ser Thr Glu Leu His Ser Asn Glu Lys Trp Phe His Gly Lys Leu
 545 550 555
 Gly Ala Gly Arg Asp Gly Arg His Ile Ala Glu Arg Leu Leu Thr
 560 565 570
 Glu Tyr Cys Ile Glu Thr Gly Ala Pro Asp Gly Ser Phe Leu Val
 575 580 585
 Arg Glu Ser Glu Thr Phe Val Gly Asp Tyr Thr Leu Ser Phe Trp
 590 595 600
 Arg Asn Gly Lys Val Gln His Cys Arg Ile His Ser Arg Gln Asp
 605 610 615
 Ala Gly Thr Pro Lys Phe Phe Leu Thr Asp Asn Leu Val Phe Asp
 620 625 630
 Ser Leu Tyr Asp Leu Ile Thr His Tyr Gln Gln Val Pro Leu Arg
 635 640 645
 Cys Asn Glu Phe Glu Met Arg Leu Ser Glu Pro Val Pro Gln Thr
 650 655 660
 Asn Ala His Glu Ser Lys Glu Trp Tyr His Ala Ser Leu Thr Arg
 665 670 675
 Ala Gln Ala Glu His Met Leu Met Arg Val Pro Arg Asp Gly Ala
 680 685 690
 Phe Leu Val Arg Lys Arg Asn Glu Pro Asn Ser Tyr Ala Ile Ser
 695 700 705
 Phe Arg Ala Glu Gly Lys Ile Lys His Cys Arg Val Gln Gln Glu
 710 715 720
 Gly Gln Thr Val Met Leu Gly Asn Ser Glu Phe Asp Ser Leu Val
 725 730 735
 Asp Leu Ile Ser Tyr Tyr Glu Lys His Pro Leu Tyr Arg Lys Met

| | | |
|-------------------------------------|--------------------------|------|
| 740 | 745 | 750 |
| Lys Leu Arg Tyr Pro Ile Asn Glu Glu | Ala Leu Glu Lys Ile Gly | |
| 755 | 760 | 765 |
| Thr Ala Glu Pro Asp Tyr Gly Ala Leu | Tyr Glu Gly Arg Asn Pro | |
| 770 | 775 | 780 |
| Gly Phe Tyr Val Glu Ala Asn Pro Met | Pro Thr Phe Lys Cys Ala | |
| 785 | 790 | 795 |
| Val Lys Ala Leu Phe Asp Tyr Lys Ala | Gln Arg Glu Asp Glu Leu | |
| 800 | 805 | 810 |
| Thr Phe Ile Lys Ser Ala Ile Ile Gln | Asn Val Glu Lys Gln Glu | |
| 815 | 820 | 825 |
| Gly Gly Trp Trp Arg Gly Asp Tyr Gly | Gly Lys Lys Gln Leu Trp | |
| 830 | 835 | 840 |
| Phe Pro Ser Asn Tyr Val Glu Glu Met | Val Asn Pro Val Ala Leu | |
| 845 | 850 | 855 |
| Glu Pro Glu Arg Glu His Leu Asp Glu | Asn Ser Pro Leu Gly Asp | |
| 860 | 865 | 870 |
| Leu Leu Arg Gly Val Leu Asp Val Pro | Ala Cys Gln Ile Ala Ile | |
| 875 | 880 | 885 |
| Arg Pro Glu Gly Lys Asn Asn Arg Leu | Phe Val Phe Ser Ile Ser | |
| 890 | 895 | 900 |
| Met Ala Ser Val Ala His Trp Ser Leu | Asp Val Ala Ala Asp Ser | |
| 905 | 910 | 915 |
| Gln Glu Glu Leu Gln Asp Trp Val Lys | Ile Arg Glu Val Ala | |
| 920 | 925 | 930 |
| Gln Thr Ala Asp Ala Arg Leu Thr Glu | Gly Lys Ile Met Glu Arg | |
| 935 | 940 | 945 |
| Arg Lys Lys Ile Ala Leu Glu Leu Ser | Glu Leu Val Val Tyr Cys | |
| 950 | 955 | 960 |
| Arg Pro Val Pro Phe Asp Glu Glu Lys | Ile Gly Thr Glu Arg Ala | |
| 965 | 970 | 975 |
| Cys Tyr Arg Asp Met Ser Ser Phe Pro | Glu Thr Lys Ala Glu Lys | |
| 980 | 985 | 990 |
| Tyr Val Asn Lys Ala Lys Gly Lys Lys | Phe Leu Gln Tyr Asn Arg | |
| 995 | 1000 | 1005 |
| Leu Gln Leu Ser Arg Ile Tyr Pro Lys | Gly Gln Arg Leu Asp Ser | |
| 1010 | 1015 | 1020 |
| Ser Asn Tyr Asp Pro Leu Pro Met Trp | Ile Cys Gly Ser Gln Leu | |
| 1025 | 1030 | 1035 |
| Val Ala Leu Asn Phe Gln Thr Pro Asp | Lys Pro Met Gln Met Asn | |
| 1040 | 1045 | 1050 |
| Gln Ala Leu Phe Met Thr Gly Arg His | Cys Gly Tyr Val Leu Gln | |
| 1055 | 1060 | 1065 |
| Pro Ser Thr Met Arg Asp Glu Ala Phe | Asp Pro Phe Asp Lys Ser | |
| 1070 | 1075 | 1080 |
| Ser Leu Arg Gly Leu Glu Pro Cys Ala | Ile Ser Ile Glu Val Leu | |
| 1085 | 1090 | 1095 |
| Gly Ala Arg His Leu Pro Lys Asn Gly | Arg Gly Ile Val Cys Pro | |
| 1100 | 1105 | 1110 |
| Phe Val Glu Ile Glu Val Ala Gly Ala | Glu Tyr Asp Ser Thr Lys | |
| 1115 | 1120 | 1125 |
| Gln Lys Thr Glu Phe Val Val Asp Asn | Gly Leu Asn Pro Val Trp | |
| 1130 | 1135 | 1140 |
| Pro Ala Lys Pro Phe His Phe Gln Ile | Ser Asn Pro Glu Phe Ala | |
| 1145 | 1150 | 1155 |
| Phe Leu Arg Phe Val Val Tyr Glu Glu | Asp Met Phe Ser Asp Gln | |
| 1160 | 1165 | 1170 |
| Asn Phe Leu Ala Gln Ala Thr Phe Pro | Val Lys Gly Leu Lys Thr | |
| 1175 | 1180 | 1185 |
| Gly Tyr Arg Ala Val Pro Leu Lys Asn | Asn Tyr Ser Glu' Asp Leu | |
| 1190 | 1195 | 1200 |
| Glu Leu Ala Ser Leu Leu Ile Lys Ile | Asp Ile Phe Pro Ala Lys | |
| 1205 | 1210 | 1215 |

| | | | | | | | | | | | | | | |
|------|-----|-----|-----|-----|-----|------|------|-----|-----|-----|------|-----|-----|-----|
| Gly | Pro | Lys | Lys | Asp | Ser | Gly | Gln | Trp | Arg | Gln | Pro | Pro | Leu | Val |
| 1220 | | | | | | 1225 | | | | | 1230 | | | |
| Val | Pro | Gln | Pro | Arg | Trp | Arg | Ala | Ala | Gly | Ala | Val | Arg | Leu | Val |
| 1235 | | | | | | | 1240 | | | | 1245 | | | |
| Glu | Cys | Arg | Glu | Leu | Gly | Ser | Leu | Glu | Ala | Ala | Pro | Cys | Gly | Gly |
| 1250 | | | | | | | 1255 | | | | 1260 | | | |
| Leu | Pro | Gly | Leu | Ala | Ala | | | | | | | | | |
| 1265 | | | | | | | | | | | | | | |

<210> 6
<211> 433
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7523653CD1

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| Met | Leu | Ala | Ala | Thr | Val | Leu | Thr | Leu | Ala | Leu | Leu | Gly | Asn | Ala |
| 1 | | | | | 5 | | | | 10 | | | | | 15 |
| His | Ala | Cys | Ser | Lys | Gly | Thr | Ser | His | Glu | Ala | Gly | Ile | Val | Cys |
| | | | | | | | | 20 | | | 25 | | | 30 |
| Arg | Ile | Thr | Lys | Pro | Ala | Leu | Leu | Val | Leu | Asn | His | Glu | Thr | Ala |
| | | | | | | | | 35 | | | 40 | | | 45 |
| Lys | Val | Ile | Gln | Thr | Ala | Phe | Gln | Arg | Ala | Ser | Tyr | Pro | Asp | Ile |
| | | | | | | | | 50 | | | 55 | | | 60 |
| Thr | Gly | Glu | Lys | Ala | Met | Met | Leu | Leu | Gly | Gln | Val | Lys | Tyr | Gly |
| | | | | | | | | 65 | | | 70 | | | 75 |
| Leu | His | Asn | Ile | Gln | Ile | Ser | His | Leu | Ser | Ile | Ala | Ser | Ser | Gln |
| | | | | | | | | 80 | | | 85 | | | 90 |
| Val | Glu | Leu | Val | Glu | Ala | Lys | Ser | Ile | Asp | Val | Ser | Ile | Gln | Asn |
| | | | | | | | | 95 | | | 100 | | | 105 |
| Val | Ser | Val | Val | Phe | Lys | Gly | Thr | Leu | Lys | Tyr | Gly | Tyr | Thr | Thr |
| | | | | | | | | 110 | | | 115 | | | 120 |
| Ala | Trp | Trp | Leu | Gly | Ile | His | Gln | Ser | Ile | Asp | Phe | Glu | Ile | Asp |
| | | | | | | | | 125 | | | 130 | | | 135 |
| Ser | Ala | Ile | Asp | Leu | Gln | Ile | Asn | Thr | Gln | Leu | Thr | Cys | Asp | Ser |
| | | | | | | | | 140 | | | 145 | | | 150 |
| Gly | Arg | Val | Arg | Thr | Asp | Ala | Pro | Asp | Cys | Tyr | Leu | Ser | Phe | His |
| | | | | | | | | 155 | | | 160 | | | 165 |
| Lys | Leu | Leu | Leu | His | Leu | Gln | Gly | Glu | Arg | Glu | Pro | Gly | Trp | Ile |
| | | | | | | | | 170 | | | 175 | | | 180 |
| Lys | Gln | Leu | Phe | Thr | Asn | Phe | Ile | Ser | Phe | Thr | Leu | Lys | Leu | Val |
| | | | | | | | | 185 | | | 190 | | | 195 |
| Leu | Lys | Gly | Gln | Ile | Cys | Lys | Glu | Ile | Asn | Val | Ile | Ser | Asn | Ile |
| | | | | | | | | 200 | | | 205 | | | 210 |
| Met | Ala | Asp | Phe | Val | Gln | Thr | Arg | Ala | Ala | Ser | Ile | Leu | Ser | Asp |
| | | | | | | | | 215 | | | 220 | | | 225 |
| Gly | Asp | Ile | Gly | Val | Asp | Ile | Ser | Leu | Thr | Gly | Asn | Pro | Val | Ile |
| | | | | | | | | 230 | | | 235 | | | 240 |
| Thr | Ala | Ser | Tyr | Leu | Glu | Ser | His | His | Lys | Ala | Val | Leu | Gln | Thr |
| | | | | | | | | 245 | | | 250 | | | 255 |
| Trp | Gly | Phe | Asn | Thr | Asn | Gln | Glu | Ile | Phe | Gln | Glu | Val | Val | Gly |
| | | | | | | | | 260 | | | 265 | | | 270 |
| Gly | Phe | Pro | Ser | Gln | Ala | Gln | Val | Thr | Val | His | Cys | Leu | Lys | Met |
| | | | | | | | | 275 | | | 280 | | | 285 |
| Pro | Lys | Ile | Ser | Cys | Gln | Asn | Lys | Gly | Val | Val | Val | Asn | Ser | Ser |
| | | | | | | | | 290 | | | 295 | | | 300 |
| Val | Met | Val | Lys | Phe | Leu | Phe | Pro | Arg | Pro | Asp | Gln | Gln | His | Ser |
| | | | | | | | | 305 | | | 310 | | | 315 |
| Val | Ala | Tyr | Thr | Phe | Glu | Glu | Asp | Ile | Val | Thr | Thr | Val | Gln | Ala |
| | | | | | | | | 320 | | | 325 | | | 330 |

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Ser | Tyr | Ser | Lys | Lys | Leu | Phe | Leu | Ser | Leu | Leu | Asp | Phe | Gln | |
| | | | 335 | | | | | 340 | | | | | 345 | |
| Ile | Thr | Pro | Lys | Thr | Val | Ser | Asn | Leu | Thr | Glu | Ser | Ser | Ser | Glu |
| | | | 350 | | | | | | 355 | | | | | 360 |
| Ser | Ile | Gln | Ser | Phe | Leu | Gln | Ser | Met | Ile | Thr | Ala | Val | Gly | Ile |
| | | | 365 | | | | | | 370 | | | | | 375 |
| Pro | Glu | Val | Met | Ser | Arg | Leu | Glu | Val | Val | Phe | Thr | Ala | Leu | Met |
| | | | 380 | | | | | | 385 | | | | | 390 |
| Asn | Ser | Lys | Gly | Val | Ser | Leu | Phe | Asp | Ile | Ile | Asn | Pro | Glu | Ile |
| | | | 395 | | | | | | 400 | | | | | 405 |
| Ile | Thr | Arg | Asp | Gly | Phe | Leu | Leu | Leu | Gln | Met | Asp | Phe | Gly | Phe |
| | | | 410 | | | | | | 415 | | | | | 420 |
| Pro | Glu | His | Leu | Leu | Val | Asp | Phe | Leu | Gln | Ser | Leu | Ser | | |
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| 1 | | | | | 5 | | | | 10 | | | | | 15 |
| Leu | Gly | Val | Trp | Gln | Gly | Arg | Pro | Arg | Gly | Ala | Cys | Ser | His | Asn |
| | | | | | 20 | | | | 25 | | | | | 30 |
| Gln | Gln | Thr | Thr | Ala | Phe | Arg | His | Pro | Val | Thr | Gly | Gln | Phe | Ser |
| | | | | | 35 | | | | 40 | | | | | 45 |
| Pro | Glu | Asn | Ser | Glu | Phe | Ile | Leu | Gln | Glu | Glu | Pro | Asn | Pro | His |
| | | | | | 50 | | | | 55 | | | | | 60 |
| Met | Ser | Lys | Gln | Asp | Arg | Asn | Gln | Arg | Pro | Ser | Ser | Met | Val | Ser |
| | | | | | 65 | | | | 70 | | | | | 75 |
| Glu | Thr | Ser | Thr | Ala | Gly | Thr | Ala | Ser | Thr | Leu | Glu | Ala | Lys | Pro |
| | | | | | 80 | | | | 85 | | | | | 90 |
| Gly | Pro | Lys | Ile | Ile | Lys | Ser | Ser | Ser | Lys | Val | His | Ser | Phe | Gly |
| | | | | | 95 | | | | 100 | | | | | 105 |
| Lys | Arg | Asp | Gln | Ala | Ile | Arg | Arg | Asn | Pro | Asn | Val | Pro | Val | Val |
| | | | | | 110 | | | | 115 | | | | | 120 |
| Val | Arg | Gly | Trp | Leu | His | Lys | Gln | Asp | Ser | Ser | Gly | Met | Arg | Leu |
| | | | | | 125 | | | | 130 | | | | | 135 |
| Trp | Lys | Arg | Arg | Trp | Phe | Val | Leu | Ala | Asp | Tyr | Cys | Leu | Phe | Tyr |
| | | | | | 140 | | | | 145 | | | | | 150 |
| Tyr | Lys | Asp | Ser | Arg | Glu | Glu | Ala | Val | Leu | Gly | Ser | Ile | Pro | Leu |
| | | | | | 155 | | | | 160 | | | | | 165 |
| Pro | Ser | Tyr | Val | Ile | Ser | Pro | Val | Ala | Pro | Glu | Asp | Arg | Ile | Ser |
| | | | | | 170 | | | | 175 | | | | | 180 |
| Arg | Lys | Tyr | Ser | Phe | Lys | Ala | Val | His | Thr | Gly | Met | Arg | Ala | Leu |
| | | | | | 185 | | | | 190 | | | | | 195 |
| Ile | Tyr | Asn | Ser | Ser | Thr | Ala | Gly | Ser | Gln | Ala | Glu | Gln | Ser | Gly |
| | | | | | 200 | | | | 205 | | | | | 210 |
| Met | Arg | Thr | Tyr | Tyr | Phe | Ser | Ala | Asp | Thr | Gln | Glu | Asp | Met | Asn |
| | | | | | 215 | | | | 220 | | | | | 225 |
| Ala | Trp | Val | Arg | Ala | Met | Asn | Gln | Ala | Ala | Gln | Val | Leu | Ser | Arg |
| | | | | | 230 | | | | 235 | | | | | 240 |
| Ser | Ser | Leu | Lys | Arg | Asp | Met | Glu | Lys | Val | Glu | Arg | Gln | Ala | Val |
| | | | | | 245 | | | | 250 | | | | | 255 |
| Pro | Gln | Ala | Asn | His | Thr | Glu | Ser | Cys | His | Glu | Cys | Gly | Arg | Val |
| | | | | | 260 | | | | 265 | | | | | 270 |
| Gly | Pro | Gly | His | Thr | Arg | Asp | Cys | Pro | His | Arg | Gly | His | Asp | Asp |
| | | | | | 275 | | | | 280 | | | | | 285 |

Ile Val Asn Phe Glu Arg Gln Glu Gln Glu Gly Glu Gln Tyr Arg
 290 295 300
 Ser Gln Arg Asp Pro Leu Glu Gly Lys Arg Asp Arg Ser Lys Ala
 305 310 315
 Arg Ser Pro Tyr Ser Pro Ala Glu Glu Asp Ala Leu Phe Met Asp
 320 325 330
 Leu Pro Thr Gly Pro Arg Gly Gln Gln Ala Gln Pro Gln Arg Ala
 335 340 345
 Glu Lys Asn Gly Met Leu Pro Ala Ser Tyr Gly Pro Gly Glu Gln
 350 355 360
 Asn Gly Thr Gly Gly Tyr Gln Arg Ala Phe Pro Pro Arg Thr Asn
 365 370 375
 Pro Glu Lys His Ser Gln Arg Lys Ser Asn Leu Ala Gln Val Glu
 380 385 390
 His Trp Ala Arg Ala Gln Lys Gly Asp Ser Arg Ser Leu Pro Leu
 395 400 405
 Asp Gln Thr Leu Pro Arg Gln Gly Pro Gly Gln Ser Leu Ser Phe
 410 415 420
 Pro Glu Asn Tyr Gln Thr Leu Pro Lys Ser Thr Arg His Pro Ser
 425 430 435
 Gly Gly Ser Ser Pro Pro Pro Arg Asn Leu Pro Ser Asp Tyr Lys
 440 445 450
 Tyr Ala Gln Asp Arg Ala Ser His Leu Lys Met Ser Ser Glu Glu
 455 460 465
 Arg Arg Ala His Arg Asp Gly Thr Val Trp Gln Leu Tyr Glu Trp
 470 475 480
 Gln Gln Arg Gln Gln Phe Arg His Gly Ser Pro Thr Ala Pro Ile
 485 490 495
 Cys Leu Gly Ser Pro Glu Phe Thr Asp Gln Gly Arg Ser Arg Ser
 500 505 510
 Met Leu Glu Val Pro Arg Ser Ile Ser Val Pro Pro Ser Pro Ser
 515 520 525
 Asp Ile Pro Pro Pro Gly Pro Pro Arg Val Phe Pro Pro Arg Arg
 530 535 540
 Pro His Thr Pro Ala Glu Arg Val Thr Val Lys Pro Pro Asp Gln
 545 550 555
 Arg Arg Ser Val Asp Ile Ser Leu Gly Asp Ser Pro Arg Arg Ala
 560 565 570
 Arg Gly His Ala Val Lys Asn Ser Ser His Val Asp Arg Arg Ser
 575 580 585
 Met Pro Ser Met Gly Tyr Met Thr His Thr Val Ser Ala Pro Ser
 590 595 600
 Leu His Gly Lys Ser Ala Asp Asp Thr Tyr Leu Gln Leu Lys Lys
 605 610 615
 Asp Leu Glu Tyr Leu Asp Leu Lys Met Thr Gly Arg Asp Leu Leu
 620 625 630
 Lys Asp Arg Ser Leu Lys Pro Val Lys Ile Ala Glu Ser Asp Thr
 635 640 645
 Asp Val Lys Leu Ser Ile Phe Cys Glu Gln Asp Arg Val Leu Gln
 650 655 660
 Asp Leu Glu Asp Lys Ile Arg Ala Leu Lys Glu Asn Lys Asp Gln
 665 670 675
 Leu Glu Ser Val Leu Glu Val Leu His Arg Gln Met Glu Gln Tyr
 680 685 690
 Arg Asp Gln Pro Gln His Leu Glu Lys Ile Ala Tyr Gln Gln Lys
 695 700 705
 Leu Leu Gln Glu Asp Leu Val His Ile Arg Ala Glu Leu Ser Arg
 710 715 720
 Glu Ser Thr Glu Met Glu Asn Ala Trp Asn Glu Tyr Leu Lys Leu
 725 730 735
 Glu Asn Asp Val Glu Gln Leu Lys Gln Thr Leu Gln Glu Gln His
 740 745 750
 Arg Arg Ala Phe Phe Gln Glu Lys Ser Gln Ile Gln Lys Asp

| 755 | 760 | 765 |
|---|---------------------|------|
| Leu Trp Arg Ile Glu Asp Val Thr Ala Gly | Leu Ser Ala Asn | Lys |
| 770 | 775 | 780 |
| Glu Asn Phe Arg Ile Leu Val Glu Ser Val | Lys Asn Pro Glu | Arg |
| 785 | 790 | 795 |
| Lys Thr Val Pro Leu Phe Pro His Pro | Pro Val Pro Ser Leu | Ser |
| 800 | 805 | 810 |
| Thr Ser Glu Ser Lys Pro Pro Gln Pro | Ser Pro Pro Thr | Ser |
| 815 | 820 | 825 |
| Pro Val Arg Thr Pro Leu Glu Val Arg | Ieu Phe Pro Gln Leu | Gln |
| 830 | 835 | 840 |
| Thr Tyr Val Pro Tyr Arg Pro His Pro | Pro Gln Leu Arg Lys | Val |
| 845 | 850 | 855 |
| Thr Ser Pro Leu Gln Ser Pro Thr Lys | Ala Lys Pro Lys Val | Gln |
| 860 | 865 | 870 |
| Glu Asp Glu Ala Pro Pro Arg Pro Pro | Leu Pro Glu Leu Tyr | Ser |
| 875 | 880 | 885 |
| Pro Glu Asp Gln Pro Pro Ala Val Pro | Leu Pro Arg Glu Ala | |
| 890 | 895 | 900 |
| Thr Ile Ile Arg His Thr Ser Val Arg | Gly Leu Lys Arg Gln | Ser |
| 905 | 910 | 915 |
| Asp Glu Arg Lys Arg Asp Arg Glu Leu | Gly Gln Cys Val Asn | Gly |
| 920 | 925 | 930 |
| Asp Ser Arg Val Glu Leu Arg Ser Tyr | Val Ser Glu Pro Glu | Leu |
| 935 | 940 | 945 |
| Ala Thr Leu Ser Gly Asp Met Ala Gln | Pro Ser Leu Gly Leu | Val |
| 950 | 955 | 960 |
| Gly Pro Glu Ser Arg Tyr Gln Thr Leu | Pro Gly Arg Gly Leu | Ser |
| 965 | 970 | 975 |
| Gly Ser Thr Ser Arg Leu Gln Gln Ser | Ser Thr Ile Ala Pro | Tyr |
| 980 | 985 | 990 |
| Val Thr Leu Arg Arg Gly Leu Asn Ala | Glu Ser Ser Lys Ala | Thr |
| 995 | 1000 | 1005 |
| Phe Pro Arg Pro Lys Ser Ala Leu Glu | Arg Leu Tyr Ser Gly | Asp |
| 1010 | 1015 | 1020 |
| His Gln Arg Gly Lys Met Ser Ala Glu | Glu Gln Leu Glu Arg | Met |
| 1025 | 1030 | 1035 |
| Lys Arg His Gln Lys Ala Leu Val Arg | Glu Arg Lys Arg Thr | Leu |
| 1040 | 1045 | 1050 |
| Gly Gln Gly Glu Arg Thr Gly Leu Pro | Ser Ser Arg Tyr Leu | Ser |
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| Arg Pro Leu Pro Gly Asp Leu Gly Ser | Val Cys | |
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| His Ala Glu Phe Pro Gly Cys Lys | Ile Arg Val Thr Ser Lys | Ala | |
| 20 | 25 | | 30 |
| Leu Glu Leu Val Lys Gln Glu Gly | Leu Arg Phe Leu Glu Gln | Glu | |
| 35 | 40 | | 45 |
| Leu Glu Thr Ile Thr Ile Pro Asp | Leu Arg Arg Lys Glu Gly | His | |
| 50 | 55 | | 60 |
| Phe Tyr Tyr Asn Ile Ser Glu Pro | Gly Leu Glu Arg Gly | Ala Asp | |

| | | |
|---|----|----|
| 65 | 70 | 75 |
| Lys Phe Pro Val Val Gly Gly Ser Ser Leu Phe Leu Ala Leu Asp | | |
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| Leu Thr Leu Arg Pro Pro Val Gly | | |
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| Met | Glu | Ser | Ser | Ser | Ser | Asn | Ser | Tyr | Phe | Ser | Val | Gly | Pro | |
| 1 | 5 | | | | | 10 | | | 15 | | | | | |
| Thr | Ser | Pro | Ser | Ala | Val | Val | Leu | Leu | Tyr | Ser | Leu | Ser | Lys | Glu |
| | | | | | | | 20 | 25 | | | | | 30 | |
| Ser | Leu | Gln | Ser | Val | Asp | Val | Leu | Arg | Glu | Glu | Val | Ser | Glu | Ile |
| | | | | | | | 35 | 40 | | | | | 45 | |
| Leu | Asp | Glu | Met | Ser | His | Lys | Leu | Arg | Leu | Gly | Ala | Ile | Arg | Phe |
| | | | | | | 50 | 55 | | | | | | 60 | |
| Cys | Ala | Phe | Thr | Leu | Ser | Lys | Val | Phe | Lys | Gln | Ile | Phe | Ser | Lys |
| | | | | | | 65 | 70 | | | | | | 75 | |
| Val | Cys | Val | Asn | Glu | Glu | Gly | Ile | Gln | Lys | Leu | Gln | Arg | Ala | Ile |
| | | | | | | | 80 | 85 | | | | | 90 | |
| Gln | Glu | His | Pro | Val | Val | Leu | Leu | Pro | Ser | His | Arg | Ser | Tyr | Ile |
| | | | | | | | 95 | 100 | | | | | 105 | |
| Asp | Phe | Leu | Met | Leu | Ser | Phe | Leu | Leu | Tyr | Asn | Tyr | Asp | Leu | Pro |
| | | | | | | | 110 | 115 | | | | | 120 | |
| Val | Pro | Val | Ile | Ala | Ala | Gly | Met | Asp | Phe | Leu | Gly | Met | Lys | Met |
| | | | | | | | 125 | 130 | | | | | 135 | |
| Val | Gly | Glu | Leu | Leu | Arg | Met | Ser | Gly | Ala | Phe | Phe | Met | Arg | Arg |
| | | | | | | 140 | 145 | | | | | | 150 | |
| Thr | Phe | Gly | Gly | Asn | Lys | Leu | Tyr | Trp | Ala | Val | Phe | Ser | Glu | Tyr |
| | | | | | | 155 | 160 | | | | | | 165 | |
| Val | Lys | Thr | Met | Leu | Arg | Asn | Gly | Tyr | Ala | Pro | Val | Glu | Phe | Phe |
| | | | | | | 170 | 175 | | | | | | 180 | |
| Leu | Glu | Gly | Thr | Arg | Ser | Arg | Ser | Ala | Lys | Thr | Leu | Thr | Pro | Lys |
| | | | | | | 185 | 190 | | | | | | 195 | |
| Phe | Gly | Leu | Leu | Asn | Ile | Val | Met | Glu | Pro | Phe | Phe | Lys | Arg | Glu |
| | | | | | | 200 | 205 | | | | | | 210 | |
| Val | Phe | Asp | Thr | Tyr | Leu | Val | Pro | Ile | Ser | Ile | Ser | Tyr | Asp | Lys |
| | | | | | | 215 | 220 | | | | | | 225 | |
| Ile | Leu | Glu | Glu | Thr | Leu | Tyr | Val | Tyr | Glu | Leu | Leu | Gly | Val | Pro |
| | | | | | | 230 | 235 | | | | | | 240 | |
| Lys | Pro | Lys | Glu | Ser | Thr | Thr | Gly | Leu | Leu | Lys | Ala | Arg | Lys | Ile |
| | | | | | | 245 | 250 | | | | | | 255 | |
| Leu | Ser | Glu | Asn | Phe | Gly | Ser | Ile | His | Val | Tyr | Phe | Gly | Asp | Pro |
| | | | | | | 260 | 265 | | | | | | 270 | |
| Val | Ser | Leu | Arg | Ser | Leu | Ala | Ala | Gly | Arg | Met | Ser | Arg | Ser | Ser |
| | | | | | | 275 | 280 | | | | | | 285 | |
| Tyr | Asn | Leu | Val | Pro | Arg | Tyr | Ile | Pro | Gln | Lys | Gln | Ser | Glu | Asp |
| | | | | | | 290 | 295 | | | | | | 300 | |
| Met | His | Ala | Phe | Val | Thr | Glu | Val | Ala | Tyr | Lys | Met | Glu | Leu | Leu |
| | | | | | | 305 | 310 | | | | | | 315 | |
| Gln | Ile | Glu | Asn | Met | Val | Leu | Ser | Pro | Trp | Thr | Leu | Ile | Val | Ala |
| | | | | | | 320 | 325 | | | | | | 330 | |
| Val | Leu | Leu | Gln | Asn | Arg | Pro | Ser | Met | Asp | Phe | Asp | Ala | Leu | Val |
| | | | | | | 335 | 340 | | | | | | 345 | |
| Glu | Lys | Thr | Leu | Trp | Leu | Lys | Gly | Leu | Thr | Gln | Ala | Phe | Gly | Gly |

| | | | | | |
|-----------------|-------------------------|---------------------|-----|--|-----|
| | 350 | | 355 | | 360 |
| Phe Leu Ile Trp | Pro Asp Asn Lys Pro | Ala Glu Glu Val Val | Pro | | |
| 365 | 370 | 375 | | | |
| Ala Ser Ile Leu | Leu His Ser Asn Ile Ala | Ser Leu Val Lys | Asp | | |
| 380 | 385 | 390 | | | |
| Gln Val Ile Leu | Lys Val Asp Ser Gly | Asp Ser Glu Val Val | Asp | | |
| 395 | 400 | 405 | | | |
| Gly Leu Met Leu | Gln His Ile Thr Leu | Leu Met Cys Ser Ala | Tyr | | |
| 410 | 415 | 420 | | | |
| Arg Asn Gln Leu | Leu Asn Ile Phe Val | Arg Pro Ser Leu Val | Ala | | |
| 425 | 430 | 435 | | | |
| Val Ala Leu Gln | Met Thr Pro Gly Phe | Arg Lys Glu Asp Val | Tyr | | |
| 440 | 445 | 450 | | | |
| Ser Cys Phe Arg | Phe Leu Arg Asp Val | Phe Ala Asp Glu Phe | Ile | | |
| 455 | 460 | 465 | | | |
| Phe Leu Pro Gly | Asn Thr Leu Lys Asp | Phe Glu Glu Gly Cys | Tyr | | |
| 470 | 475 | 480 | | | |
| Leu Leu Cys Lys | Ser Glu Ala Ile Gln | Val Thr Thr Lys Asp | Ile | | |
| 485 | 490 | 495 | | | |
| Leu Val Thr Glu | Lys Gly Asn Thr Val | Leu Glu Phe Leu Val | Gly | | |
| 500 | 505 | 510 | | | |
| Leu Phe Lys Pro | Phe Val Glu Ser Tyr | Gln Ile Ile Cys Lys | Tyr | | |
| 515 | 520 | 525 | | | |
| Leu Leu Ser Glu | Glu Glu Asp His Phe | Ser Glu Glu Gln Tyr | Leu | | |
| 530 | 535 | 540 | | | |
| Ala Ala Val Arg | Lys Phe Thr Ser Gln | Leu Leu Asp Gln Gly | Thr | | |
| 545 | 550 | 555 | | | |
| Ser Gln Cys Tyr | Asp Val Leu Ser Ser | Asp Val Gln Lys Asn | Ala | | |
| 560 | 565 | 570 | | | |
| Leu Ala Ala Cys | Val Arg Leu Gly Val | Val Glu Lys Lys Lys | Ile | | |
| 575 | 580 | 585 | | | |
| Asn Asn Asn Cys | Ile Phe Asn Val Asn | Glu Pro Ala Thr Thr | Lys | | |
| 590 | 595 | 600 | | | |
| Leu Glu Glu Met | Leu Gly Cys Lys Thr | Pro Ile Gly Lys Pro | Ala | | |
| 605 | 610 | 615 | | | |
| Thr Ala Lys Leu | | | | | |

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Thr Leu Glu Gly Gln Leu Trp Pro Glu Thr Leu Lys Asn Ser Pro
35 40 45
Phe Pro Cys Asn Pro Asn Lys Leu Gly Val Asn Met Pro Ser Lys
50 55 60
Ser Val His Ser Leu Lys Pro Ser Asp Ile Lys Phe Val Ala Ala
65 70 75
Ile Gly Asn Leu Glu Ile Pro Pro Asp Pro Gly Thr Gly Asp Leu
80 85 90
Glu Lys Gln Asp Trp Thr Glu Arg Pro Gln Gln Val Cys Met Gly
95 100 105
Val Met Thr Val Leu Ser Asp Ile Ile Arg Tyr Phe Ser Pro Ser

| | | | |
|---|-----|-----|-----|
| | 110 | 115 | 120 |
| Val Pro Met Pro Val Cys His Thr Gly Lys Arg Val Ile Pro His | | | |
| 125 | 130 | 135 | |
| Asp Gly Ala Glu Asp Leu Trp Ile Gln Ala Gln Glu Leu Val Arg | | | |
| 140 | 145 | 150 | |
| Asn Met Lys Glu Asn Leu Gln Leu Asp Phe Gln Phe Asp Trp Lys | | | |
| 155 | 160 | 165 | |
| Leu Ile Asn Val Phe Phe Ser Asn Ala Ser Gln Cys Tyr Leu Cys | | | |
| 170 | 175 | 180 | |
| Pro Ser Ala Gln Gln Asn Gly Leu Ala Ala Gly Gly Val Asp Glu | | | |
| 185 | 190 | 195 | |
| Leu Met Gly Val Leu Asp Tyr Leu Gln Gln Glu Val Pro Arg Ala | | | |
| 200 | 205 | 210 | |
| Phe Val Asn Leu Val Asp Leu Ser Glu Val Ala Glu Val Ser Arg | | | |
| 215 | 220 | 225 | |
| Gln Tyr His Gly Thr Trp Leu Ser Pro Ala Pro Glu Pro Cys Asn | | | |
| 230 | 235 | 240 | |
| Cys Ser Glu Glu Thr Thr Arg Leu Ala Lys Val Val Met Gln Trp | | | |
| 245 | 250 | 255 | |
| Ser Tyr Gln Glu Ala Trp Asn Ser Leu Leu Ala Ser Ser Arg Tyr | | | |
| 260 | 265 | 270 | |
| Ser Glu Gln Glu Ser Phe Thr Val Val Phe Gln Pro Phe Phe Tyr | | | |
| 275 | 280 | 285 | |
| Glu Thr Thr Pro Ser Leu His Ser Glu Asp Pro Arg Leu Gln Asp | | | |
| 290 | 295 | 300 | |
| Ser Thr Thr Leu Ala Trp His Leu Trp Asn Arg Met Met Glu Pro | | | |
| 305 | 310 | 315 | |
| Ala Gly Glu Lys Asp Glu Pro Leu Ser Val Lys His Gly Arg Pro | | | |
| 320 | 325 | 330 | |
| Met Lys Cys Pro Ser Gln Glu Ser Pro Tyr Leu Phe Ser Tyr Arg | | | |
| 335 | 340 | 345 | |
| Asn Ser Asn Tyr Leu Thr Arg Leu Gln Lys Pro Gln Asp Lys Leu | | | |
| 350 | 355 | 360 | |
| Glu Val Arg Glu Gly Ala Glu Ile Arg Cys Pro Asp Lys Asp Pro | | | |
| 365 | 370 | 375 | |
| Ser Asp Thr Val Pro Thr Ser Val His Arg Leu Lys Pro Ala Asp | | | |
| 380 | 385 | 390 | |
| Ile Asn Val Ile Gly Ala Leu Gly Asp Ser Leu Thr Ala Gly Asn | | | |
| 395 | 400 | 405 | |
| Gly Ala Gly Ser Thr Pro Gly Asn Val Leu Asp Val Leu Thr Gln | | | |
| 410 | 415 | 420 | |
| Tyr Arg Gly Leu Ser Trp Ser Val Gly Gly Asp Glu Asn Ile Gly | | | |
| 425 | 430 | 435 | |
| Thr Val Thr Thr Leu Ala Asn Ile Leu Arg Glu Phe Asn Pro Ser | | | |
| 440 | 445 | 450 | |
| Leu Lys Gly Phe Ser Val Gly Thr Gly Lys Glu Thr Ser Pro Asn | | | |
| 455 | 460 | 465 | |
| Ala Phe Leu Asn Gln Ala Val Ala Gly Gly Arg Ala Glu Asp Leu | | | |
| 470 | 475 | 480 | |
| Pro Val Gln Ala Arg Arg Leu Val Asp Leu Met Lys Asn Asp Thr | | | |
| 485 | 490 | 495 | |
| Arg Ile His Phe Gln Glu Asp Trp Lys Ile Ile Thr Leu Phe Ile | | | |
| 500 | 505 | 510 | |
| Gly Gly Asn Asp Leu Cys Asp Phe Cys Asn Asp Leu Val His Tyr | | | |
| 515 | 520 | 525 | |
| Ser Pro Gln Asn Phe Thr Asp Asn Ile Gly Lys Ala Leu Asp Ile | | | |
| 530 | 535 | 540 | |
| Leu His Ala Glu Val Pro Arg Ala Phe Val Asn Leu Val Thr Val | | | |
| 545 | 550 | 555 | |
| Leu Glu Ile Val Asn Leu Arg Glu Leu Tyr Gln Glu Lys Lys Val | | | |
| 560 | 565 | 570 | |
| Tyr Cys Pro Arg Met Ile Leu Arg Ser Leu Cys Pro Cys Val Leu | | | |
| 575 | 580 | 585 | |

Lys Phe Asp Asp Asn Ser Thr Glu Leu Ala Thr Leu Ile Glu Phe
 590 595 600
 Asn Lys Lys Phe Gln Glu Lys Thr His Gln Leu Ile Glu Ser Gly
 605 610 615
 Arg Tyr Asp Thr Arg Glu Asp Phe Thr Val Val Val Gln Pro Phe
 620 625 630
 Phe Glu Asn Val Asp Met Pro Lys Thr Ser Glu Gly Leu Pro Asp
 635 640 645
 Asn Ser Phe Phe Ala Pro Asp Cys Phe His Phe Ser Ser Lys Ser
 650 655 660
 His Ser Arg Ala Ala Ser Ala Leu Trp Asn Asn Met Leu Glu Pro
 665 670 675
 Val Gly Gln Lys Thr Thr Arg His Lys Phe Glu Asn Lys Ile Asn
 680 685 690
 Ile Thr Cys Pro Asn Gln Val Gln Pro Phe Leu Arg Thr Tyr Lys
 695 700 705
 Asn Ser Met Gln Gly His Gly Thr Trp Leu Pro Cys Arg Asp Arg
 710 715 720
 Ala Pro Ser Ala Leu His Pro Thr Ser Val His Ala Leu Arg Pro
 725 730 735
 Ala Asp Ile Gln Val Val Ala Ala Leu Gly Asp Ser Leu Thr Ala
 740 745 750
 Gly Asn Gly Ile Gly Ser Lys Pro Asp Asp Leu Pro Asp Val Thr
 755 760 765
 Thr Gln Tyr Arg Gly Leu Ser Tyr Ser Ala Gly Gly Asp Gly Ser
 770 775 780
 Leu Glu Asn Val Thr Thr Leu Pro Asn Ile Leu Arg Glu Phe Asn
 785 790 795
 Arg Asn Leu Thr Gly Tyr Ala Val Gly Thr Gly Asp Ala Asn Asp
 800 805 810
 Thr Asn Ala Phe Leu Asn Gln Ala Val Pro Gly Ala Lys Ala Glu
 815 820 825
 Asp Leu Met Ser Gln Val Gln Thr Leu Met Gln Lys Met Lys Asp
 830 835 840
 Asp His Arg Val Asn Phe His Glu Asp Trp Lys Val Ile Thr Val
 845 850 855
 Leu Ile Gly Gly Ser Asp Leu Cys Asp Tyr Cys Thr Asp Ser Asn
 860 865 870
 Leu Tyr Ser Ala Ala Asn Phe Val Asp His Leu Arg Asn Ala Leu
 875 880 885
 Asp Val Leu His Arg Glu Val Pro Arg Val Leu Val Asn Leu Val
 890 895 900
 Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe Leu Gly Asn
 905 910 915
 Pro Asp Lys Cys Pro Val Gln Gln Ala Ser Val Leu Cys Asn Cys
 920 925 930
 Val Leu Thr Leu Arg Glu Asn Ser Gln Glu Leu Ala Arg Leu Glu
 935 940 945
 Ala Phe Ser Arg Ala Tyr Arg Ser Ser Met Arg Glu Leu Val Gly
 950 955 960
 Ser Gly Arg Tyr Asp Thr Gln Glu Asp Phe Ser Val Val Leu Gln
 965 970 975
 Pro Phe Phe Gln Asn Ile Gln Leu Pro Val Leu Ala Asp Gly Leu
 980 985 990
 Pro Asp Thr Ser Phe Phe Ala Pro Asp Cys Ile His Pro Asn Gln
 995 1000 1005
 Lys Phe His Ser Gln Leu Ala Arg Ala Leu Trp Thr Asn Met Leu
 1010 1015 1020
 Glu Pro Leu Gly Ser Lys Thr Glu Thr Leu Asp Leu Arg Ala Glu
 1025 1030 1035
 Met Pro Ile Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr
 1040 1045 1050
 Pro Arg Asn Ser Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu

| 1055 | 1060 | 1065 |
|---|---------------------|------|
| Asn Trp Gly Ser Asp Phe Leu Cys Thr Glu | Trp Lys Ala Ser Asn | |
| 1070 | 1075 | 1080 |
| Ser Val Pro Thr Ser Val His Gln Leu Arg | Pro Ala Asp Ile Lys | |
| 1085 | 1090 | 1095 |
| Val Val Ala Ala Leu Gly Asp Ser Leu Thr | Thr Ala Val Gly Ala | |
| 1100 | 1105 | 1110 |
| Arg Pro Asn Asn Ser Ser Asp Leu Pro Thr | Ser Trp Arg Gly Leu | |
| 1115 | 1120 | 1125 |
| Ser Trp Ser Ile Gly Gly Asp Gly Asn Leu | Glu Thr His Thr Thr | |
| 1130 | 1135 | 1140 |
| Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro | Tyr Leu Leu Gly Phe | |
| 1145 | 1150 | 1155 |
| Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly | Leu Asn Val Ala Ala | |
| 1160 | 1165 | 1170 |
| Glu Gly Ala Arg Ala Arg Asp Met Pro Ala | Gln Ala Trp Asp Leu | |
| 1175 | 1180 | 1185 |
| Val Glu Arg Met Lys Asn Ser Pro Asp Ile | Asn Leu Glu Lys Asp | |
| 1190 | 1195 | 1200 |
| Trp Lys Leu Val Thr Leu Phe Ile Gly Val | Asn Asp Leu Cys His | |
| 1205 | 1210 | 1215 |
| Tyr Cys Glu Asn Pro Glu Ala His Leu Ala | Thr Glu Tyr Val Gln | |
| 1220 | 1225 | 1230 |
| His Ile Gln Gln Ala Leu Asp Ile Leu Ser | Glu Glu Leu Pro Arg | |
| 1235 | 1240 | 1245 |
| Ala Phe Val Asn Val Val Glu Val Met Glu | Leu Ala Ser Leu Tyr | |
| 1250 | 1255 | 1260 |
| Gln Gly Gln Gly Lys Cys Ala Met Leu Ala | Ala Gln Asn Asn | |
| 1265 | 1270 | 1275 |
| Cys Thr Cys Leu Arg His Ser Gln Ser Ser | Leu Glu Lys Gln Glu | |
| 1280 | 1285 | 1290 |
| Leu Lys Lys Val Asn Trp Asn Leu Gln His | Gly Ile Ser Ser Phe | |
| 1295 | 1300 | 1305 |
| Ser Tyr Trp His Gln Tyr Thr Gln Arg Glu | Asp Phe Ala Val Val | |
| 1310 | 1315 | 1320 |
| Val Gln Pro Phe Gln Asn Thr Leu Thr Pro | Leu Asn Glu Arg | |
| 1325 | 1330 | 1335 |
| Gly Asp Thr Asp Leu Thr Phe Phe Ser Glu | Asp Cys Phe His Phe | |
| 1340 | 1345 | 1350 |
| Ser Asp Arg Gly His Ala Glu Met Ala Ile | Ala Leu Trp Asn Asn | |
| 1355 | 1360 | 1365 |
| Met Glu Ser Pro Tyr Leu Tyr Thr Leu Arg | Asn Ser Arg Leu Leu | |
| 1370 | 1375 | 1380 |
| Pro Asp Gln Ala Glu Glu Ala Pro Glu Val | Leu Tyr Trp Ala Val | |
| 1385 | 1390 | 1395 |
| Pro Val Ala Ala Gly Val Gly Leu Val Val | Gly Ile Ile Gly Thr | |
| 1400 | 1405 | 1410 |
| Val Val Trp Arg Cys Arg Arg Gly Arg Arg | Glu Asp Pro Pro | |
| 1415 | 1420 | 1425 |
| Met Ser Leu Arg Thr Val Ala Leu | | |
| 1430 | | |

<210> 11

<211> 1004

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7513164CD1

<400> 11

Met Gly Leu Arg Pro Gly Ile Phe Leu Leu Glu Leu Leu Leu

| 1 | 5 | 10 | 15 |
|-----|-----|-----|-----|
| Leu | Gly | Gln | Gly |
| Thr | Pro | Gln | Ile |
| 20 | 25 | 30 | |
| Thr | Leu | Glu | Gly |
| Gln | Leu | Trp | Pro |
| 35 | 40 | 45 | |
| Phe | Pro | Cys | Asn |
| Pro | Asn | Lys | Leu |
| 50 | 55 | 60 | |
| Ser | Val | His | Ser |
| Leu | Lys | Pro | Ser |
| 65 | 70 | 75 | |
| Ile | Gly | Asn | Leu |
| Glu | Ile | Pro | Pro |
| 80 | 85 | 90 | |
| Glu | Lys | Gln | Asp |
| Trp | Thr | Glu | Arg |
| 95 | 100 | 105 | |
| Val | Met | Thr | Val |
| Leu | Ser | Asp | Ile |
| 110 | 115 | 120 | |
| Val | Pro | Met | Pro |
| Val | Cys | His | Thr |
| 125 | 130 | 135 | |
| Asp | Gly | Ala | Glu |
| Asp | Leu | Trp | Ile |
| 140 | 145 | 150 | |
| Asn | Met | Lys | Glu |
| Asn | Leu | Gln | Leu |
| 155 | 160 | 165 | |
| Leu | Ile | Asn | Val |
| Phe | Phe | Ser | Asn |
| 170 | 175 | 180 | |
| Pro | Ser | Ala | Gln |
| Gln | Asn | Gly | Leu |
| 185 | 190 | 195 | |
| Leu | Met | Gly | Val |
| Leu | Asp | Tyr | Leu |
| 200 | 205 | 210 | |
| Phe | Val | Asn | Leu |
| Leu | Asp | Leu | Ser |
| 215 | 220 | 225 | |
| Gln | Tyr | His | Gly |
| Thr | Trp | Leu | Ser |
| 230 | 235 | 240 | |
| Cys | Ser | Glu | Glu |
| Thr | Thr | Arg | Leu |
| 245 | 250 | 255 | |
| Ser | Tyr | Gln | Glu |
| Ala | Trp | Asn | Ser |
| 260 | 265 | 270 | |
| Ser | Glu | Gln | Glu |
| Ser | Phe | Thr | Val |
| 275 | 280 | 285 | |
| Glu | Thr | Thr | Pro |
| Ser | Leu | His | Ser |
| 290 | 295 | 300 | |
| Ser | Thr | Thr | Leu |
| Ala | Trp | His | Leu |
| 305 | 310 | 315 | |
| Ala | Gly | Glu | Lys |
| Asp | Glu | Pro | Leu |
| 320 | 325 | 330 | |
| Met | Lys | Cys | Pro |
| Ser | Gln | Glu | Ser |
| 335 | 340 | 345 | |
| Asn | Ser | Asn | Tyr |
| Leu | Thr | Arg | Leu |
| 350 | 355 | 360 | |
| Glu | Val | Arg | Glu |
| Gly | Ala | Glu | Ile |
| 365 | 370 | 375 | |
| Ser | Asp | Thr | Val |
| Pro | Thr | Ser | Val |
| 380 | 385 | 390 | |
| Ile | Asn | Val | Ile |
| Gly | Ala | Leu | Gly |
| 395 | 400 | 405 | |
| Gly | Ala | Gly | Ser |
| Thr | Pro | Gly | Asn |
| 410 | 415 | 420 | |
| Tyr | Arg | Gly | Leu |
| Ser | Trp | Ser | Val |
| 425 | 430 | 435 | |
| Thr | Val | Thr | Thr |
| Leu | Ala | Asn | Ile |
| 440 | 445 | 450 | |
| Leu | Lys | Gly | Phe |
| Ser | Val | Gly | Thr |
| 455 | 460 | 465 | |
| Ala | Phe | Leu | Asn |
| Gln | Ala | Val | Ala |
| 470 | 475 | 480 | |

Pro Val Gln Ala Arg Arg Leu Val Asp Leu Met Lys Asn Asp Thr
 485 490 495
 Arg Ile His Phe Gln Glu Asp Trp Lys Ile Ile Thr Leu Phe Ile
 500 505 510
 Gly Gly Asn Asp Leu Cys Asp Phe Cys Asn Asp Leu Val His Tyr
 515 520 525
 Ser Pro Gln Asn Phe Thr Asp Asn Ile Gly Lys Ala Leu Asp Ile
 530 535 540
 Leu His Ala Glu Val Pro Arg Ala Phe Val Asn Leu Val Thr Val
 545 550 555
 Leu Glu Ile Val Asn Leu Arg Glu Leu Tyr Gln Glu Lys Lys Val
 560 565 570
 Tyr Cys Pro Arg Met Ile Leu Arg Ser Leu Cys Pro Cys Val Leu
 575 580 585
 Lys Phe Asp Asp Asn Ser Thr Glu Leu Ala Thr Leu Ile Glu Phe
 590 595 600
 Asn Lys Lys Phe Gln Glu Lys Thr His Gln Leu Ile Glu Ser Gly
 605 610 615
 Arg Tyr Asp Thr Arg Glu Asp Phe Thr Val Val Val Gln Pro Phe
 620 625 630
 Phe Glu Asn Val Asp Met Pro Lys Thr Ser Glu Gly Leu Pro Asp
 635 640 645
 Asn Ser Phe Phe Ala Pro Asp Cys Phe His Phe Ser Ser Lys Ser
 650 655 660
 His Ser Arg Ala Ala Ser Ala Leu Trp Asn Asn Met Leu Glu Pro
 665 670 675
 Val Gly Gln Lys Thr Thr Arg His Lys Phe Glu Asn Lys Ile Asn
 680 685 690
 Ile Thr Cys Pro Asn Gln Val Gln Pro Phe Leu Arg Thr Tyr Lys
 695 700 705
 Asn Ser Met Gln Gly His Gly Thr Trp Leu Pro Cys Arg Asp Arg
 710 715 720
 Ala Pro Ser Ala Leu His Pro Thr Ser Val His Ala Leu Arg Pro
 725 730 735
 Ala Asp Ile Gln Val Val Ala Ala Leu Gly Asp Ser Leu Thr Ala
 740 745 750
 Gly Asn Gly Ile Gly Ser Lys Pro Asp Asp Leu Pro Asp Val Thr
 755 760 765
 Thr Gln Tyr Arg Gly Leu Ser Tyr Ser Ala Gly Gly Asp Gly Ser
 770 775 780
 Leu Glu Asn Val Thr Thr Leu Pro Asn Ile Leu Arg Glu Phe Asn
 785 790 795
 Arg Asn Leu Thr Gly Tyr Ala Val Gly Thr Gly Asp Ala Asn Asp
 800 805 810
 Thr Asn Ala Phe Leu Asn Gln Ala Val Pro Gly Ala Lys Ala Glu
 815 820 825
 Asp Leu Met Ser Gln Val Gln Thr Leu Met Gln Lys Met Lys Asp
 830 835 840
 Asp His Arg Val Asn Phe His Glu Asp Trp Lys Val Ile Thr Val
 845 850 855
 Leu Ile Gly Gly Ser Asp Leu Cys Asp Tyr Cys Thr Asp Ser Asn
 860 865 870
 Leu Tyr Ser Ala Ala Asn Phe Val His His Leu Arg Asn Ala Leu
 875 880 885
 Asp Val Leu His Arg Glu Val Pro Arg Val Leu Val Asn Leu Val
 890 895 900
 Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe Leu Gly Asn
 905 910 915
 Pro Asp Lys Cys Pro Val Gln Gln Ala Arg Ala Ala Cys Ala Ser
 920 925 930
 Trp Trp Gly Gln Ala Ala Met Thr Arg Arg Arg Thr Ser Leu Trp
 935 940 945
 Cys Cys Ser Pro Ser Ser Arg Thr Ser Ser Leu Ser Trp Arg

| | | |
|---|-----------------|-----|
| 950 | 955 | 960 |
| Met Gly Ser Gln Ile Arg Pro Ser Leu Pro | Gln Thr Ala Ser | Thr |
| 965 | 970 | 975 |
| Gln Ile Arg Asn Ser Thr Pro Ser Trp Pro | Glu Pro Phe Gly | Pro |
| 980 | 985 | 990 |
| Ile Cys Leu Asn His Leu Glu Ala Lys Gln Arg Pro Trp Thr | | |
| 995 | 1000 | |

<210> 12
<211> 380
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7513496CD1

<400> 12

| | | |
|---|---------------------|-----|
| Met Glu Gly Ala Ala Leu Leu Arg Val Ser Val Leu Cys Ile Trp | | |
| 1 | 5 | 10 |
| Val Gln Gln Asn Val Pro Ser Gly Thr Asp | Thr Gly Asp Pro Gln | |
| 20 | 25 | 30 |
| Ser Lys Pro Leu Gly Asp Trp Ala Ala Gly | Thr Met Asp Pro Glu | |
| 35 | 40 | 45 |
| Ser Ser Ile Phe Ile Glu Asp Ala Ile Lys Tyr Phe Lys Glu Lys | | |
| 50 | 55 | 60 |
| Val Ser Thr Gln Asn Leu Leu Leu Leu | Thr Asp Asn Glu Ala | |
| 65 | 70 | 75 |
| Trp Asn Gly Phe Val Ala Ala Ala Glu Leu | Pro Arg Asn Glu Ala | |
| 80 | 85 | 90 |
| Asp Glu Leu Arg Lys Ala Leu Asp Asn Leu | Ala Arg Gln Met Ile | |
| 95 | 100 | 105 |
| Met Lys Asp Lys Asn Trp His Asp Lys Gly | Gln Gln Tyr Arg Asn | |
| 110 | 115 | 120 |
| Trp Phe Leu Lys Glu Phe Pro Arg Leu Lys | Ser Lys Leu Glu Asp | |
| 125 | 130 | 135 |
| Asn Ile Arg Arg Leu Arg Ala Leu Ala Asp | Gly Val Gln Lys Val | |
| 140 | 145 | 150 |
| His Lys Gly Thr Thr Ile Ala Asn Val Val | Ser Gly Ser Leu Ser | |
| 155 | 160 | 165 |
| Ile Ser Ser Gly Ile Leu Thr Leu Val Gly | Met Gly Leu Ala Pro | |
| 170 | 175 | 180 |
| Phe Thr Glu Gly Gly Ser Leu Val Leu Leu | Glu Pro Gly Met Glu | |
| 185 | 190 | 195 |
| Leu Gly Ile Thr Ala Ala Leu Thr Gly Ile | Thr Ser Ser Thr Ile | |
| 200 | 205 | 210 |
| Asp Tyr Gly Lys Lys Trp Trp Thr Gln Ala | Gln Ala His Asp Leu | |
| 215 | 220 | 225 |
| Val Ile Lys Ser Leu Asp Lys Leu Lys Glu | Val Lys Glu Phe Leu | |
| 230 | 235 | 240 |
| Gly Glu Asn Ile Ser Asn Phe Leu Ser Leu | Ala Gly Asn Thr Tyr | |
| 245 | 250 | 255 |
| Gln Leu Thr Arg Gly Ile Gly Lys Asp Ile | Arg Ala Leu Arg Arg | |
| 260 | 265 | 270 |
| Ala Arg Ala Asn Leu Gln Ser Val Pro His | Ala Ser Ala Ser Arg | |
| 275 | 280 | 285 |
| Pro Arg Val Thr Glu Pro Ile Ser Ala Glu | Ser Gly Glu Gln Val | |
| 290 | 295 | 300 |
| Glu Arg Val Asn Glu Pro Ser Ile Leu Glu | Met Ser Arg Gly Val | |
| 305 | 310 | 315 |
| Lys Leu Thr Asp Val Ala Pro Val Ser Phe | Phe Leu Val Leu Asp | |
| 320 | 325 | 330 |
| Val Val Tyr Leu Val Tyr Glu Ser Lys His | Leu His Glu Gly Ala | |

| | | | |
|-------------------------------------|-------------------------|-----|-----|
| | 335 | 340 | 345 |
| Lys Ser Glu Thr Ala Glu Glu Leu Lys | Lys Val Ala Gln Glu | Leu | |
| 350 | 355 | 360 | |
| Glu Glu Lys Leu Asn Ile Leu Asn Asn | Asn Tyr Lys Ile Leu Gln | | |
| 365 | 370 | 375 | |
| Ala Asp Gln Glu Leu | | | |
| 380 | | | |

<210> 13
<211> 99
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7514724CD1

<400> 13
Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly
1 5 10 15
Asn Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile
20 25 30
Pro Gly Asn Pro Gly His Asn Val Leu Pro Gly Arg Asp Gly Arg
35 40 45
Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Cys
50 55 60
Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu
65 70 75
Arg Gly Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys Gly Met
80 85 90
Phe Arg Cys Leu Trp Ser Lys Thr Glu
95

<210> 14
<211> 304
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7514797CD1

<400> 14
Met Ala Ala Gly Ile Val Ala Ser Arg Arg Leu Arg Asp Leu Leu
1 5 10 15
Thr Arg Arg Leu Thr Gly Ser Asn Tyr Pro Gly Leu Ser Ile Ser
20 25 30
Leu Arg Leu Thr Gly Ser Ser Ala Gln Glu Ala Ala Ser Gly Val
35 40 45
Ala Leu Gly Glu Ala Pro Asp His Ser Tyr Glu Ser Leu Arg Val
50 55 60
Thr Ser Ala Gln Lys His Val Leu His Val Gln Leu Asn Arg Pro
65 70 75
Asn Lys Arg Asn Ala Met Asn Lys Val Phe Trp Arg Glu Met Val
80 85 90
Glu Cys Phe Asn Lys Ile Ser Arg Asp Ala Asp Cys Arg Ala Val
95 100 105
Val Ile Ser Gly Ala Gly Lys Met Phe Thr Ala Gly Ile Asp Leu
110 115 120
Met Asp Met Ala Ser Asp Ile Leu Gln Pro Lys Gly Asp Asp Val
125 130 135
Ala Arg Ile Ser Trp Tyr Leu Arg Asp Ile Ile Thr Arg Tyr Gln
140 145 150

Glu Thr Phe Asn Val Ile Glu Arg Cys Pro Lys Pro Val Ile Ala
 155 160 165
 Ala Val His Gly Gly Cys Ile Gly Gly Val Asp Leu Val Thr
 170 175 180
 Ala Cys Asp Ile Arg Tyr Cys Ala Gln Asp Ala Phe Phe Gln Val
 185 190 195
 Lys Glu Val Asp Val Gly Leu Ala Ala Asp Val Gly Thr Leu Gln
 200 205 210
 Arg Leu Pro Lys Val Ile Gly Asn Gln Ser Arg Val Phe Pro Asp
 215 220 225
 Lys Glu Val Met Leu Asp Ala Ala Leu Ala Leu Ala Ala Glu Ile
 230 235 240
 Ser Ser Lys Ser Pro Val Ala Val Gln Ser Thr Lys Val Asn Leu
 245 250 255
 Leu Tyr Ser Arg Asp His Ser Val Ala Glu Ser Leu Asn Tyr Val
 260 265 270
 Ala Ser Trp Asn Met Ser Met Leu Gln Thr Gln Asp Leu Val Lys
 275 280 285
 Ser Val Gln Ala Thr Thr Glu Asn Lys Glu Leu Lys Thr Val Thr
 290 295 300
 Phe Ser Lys Leu

<210> 15

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7512100CD1

<400> 15

Met Ala Thr Pro Tyr Val Pro Val Pro Met Pro Ile Gly Asn Ser
 1 5 10 15
 Ala Ser Ser Phe Thr Thr Asn Arg Asn Gln Arg Ser Ser Ser Phe
 20 25 30
 Gly Ser Val Ser Thr Ser Ser Asn Ser Ser Lys Gly Gln Leu Glu
 35 40 45
 Asp Ser Asn Met Gly Thr Ala Ser Ser Ile Glu Tyr Ser Thr Arg
 50 55 60
 Pro Arg Asp Thr Glu Glu Gln Asn Pro Glu Thr Val Asn Trp Glu
 65 70 75
 Asp Arg Pro Ser Thr Pro Thr Ile Leu Gly Tyr Glu Val Met Glu
 80 85 90
 Glu Arg Ala Lys Phe Thr Val Tyr Lys Ile Leu Val Lys Lys Thr
 95 100 105
 Pro Glu Glu Ser Trp Val Val Phe Arg Arg Tyr Thr Asp Phe Ser
 110 115 120
 Arg Leu Asn Asp Lys Leu Lys Glu Met Phe Pro Gly Phe Arg Leu
 125 130 135
 Ala Leu Pro Pro Lys Arg Trp Phe Lys Asp Asn Tyr Asn Ala Asp
 140 145 150
 Phe Leu Glu Asp Arg Gln Leu Gly Leu Gln Ala Phe Leu Gln Asn
 155 160 165
 Leu Val Ala His Lys Asp Ile Ala Asn Trp His Ser Val Lys Leu
 170 175 180

<210> 16

<211> 209

<212> PRT

<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7512101CD1

<400> 16

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Ala | Thr | Pro | Tyr | Val | Pro | Val | Pro | Met | Pro | Ile | Gly | Asn | Ser |
| 1 | | | | | 5 | | | | 10 | | | | | 15 |
| Ala | Ser | Ser | Phe | Thr | Thr | Asn | Arg | Asn | Gln | Arg | Ser | Ser | Ser | Phe |
| | | | | | 20 | | | | 25 | | | | | 30 |
| Gly | Ser | Val | Ser | Thr | Ser | Ser | Asn | Ser | Ser | Lys | Gly | Gln | Leu | Glu |
| | | | | | 35 | | | | 40 | | | | | 45 |
| Asp | Ser | Asn | Met | Gly | Asn | Phe | Lys | Gln | Thr | Ser | Val | Pro | Asp | Gln |
| | | | | | 50 | | | | 55 | | | | | 60 |
| Met | Asp | Asn | Thr | Ser | Ser | Val | Cys | Ser | Ser | Pro | Leu | Ile | Arg | Thr |
| | | | | | 65 | | | | 70 | | | | | 75 |
| Lys | Phe | Thr | Gly | Thr | Ala | Ser | Ser | Ile | Glu | Tyr | Ser | Thr | Arg | Pro |
| | | | | | 80 | | | | 85 | | | | | 90 |
| Arg | Asp | Thr | Glu | Glu | Gln | Asn | Pro | Glu | Thr | Vai | Asn | Trp | Glu | Asp |
| | | | | | 95 | | | | 100 | | | | | 105 |
| Arg | Pro | Ser | Thr | Pro | Thr | Ile | Leu | Gly | Tyr | Glu | Val | Met | Glu | Glu |
| | | | | | 110 | | | | 115 | | | | | 120 |
| Arg | Ala | Lys | Phe | Thr | Val | Tyr | Lys | Ile | Leu | Val | Lys | Lys | Thr | Pro |
| | | | | | 125 | | | | 130 | | | | | 135 |
| Glu | Glu | Ser | Trp | Val | Val | Phe | Arg | Arg | Tyr | Thr | Asp | Phe | Ser | Arg |
| | | | | | 140 | | | | 145 | | | | | 150 |
| Leu | Asn | Asp | Lys | Leu | Lys | Glu | Met | Phe | Pro | Gly | Phe | Arg | Leu | Ala |
| | | | | | 155 | | | | 160 | | | | | 165 |
| Leu | Pro | Pro | Lys | Arg | Trp | Phe | Lys | Asp | Asn | Tyr | Asn | Ala | Asp | Phe |
| | | | | | 170 | | | | 175 | | | | | 180 |
| Leu | Glu | Asp | Arg | Gln | Leu | Gly | Leu | Gln | Ala | Phe | Leu | Gln | Asn | Leu |
| | | | | | 185 | | | | 190 | | | | | 195 |
| Val | Ala | His | Lys | Asp | Ile | Ala | Asn | Trp | His | Ser | Val | Lys | Leu | |
| | | | | | 200 | | | | 205 | | | | | |

<210> 17
<211> 419
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7516771CD1

<400> 17

| | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Met | Lys | Met | Arg | Phe | Leu | Gly | Leu | Val | Val | Cys | Leu | Val | Leu | Trp |
| 1 | | | | | 5 | | | | 10 | | | | | 15 |
| Thr | Leu | His | Ser | Glu | Gly | Ser | Arg | Gly | Lys | Leu | Thr | Ala | Val | Asp |
| | | | | | 20 | | | | 25 | | | | | 30 |
| Pro | Glu | Thr | Asn | Met | Asn | Val | Ser | Glu | Ile | Ile | Ser | Tyr | Trp | Gly |
| | | | | | 35 | | | | 40 | | | | | 45 |
| Phe | Pro | Ser | Glu | Glu | Tyr | Leu | Val | Glu | Thr | Glu | Asp | Gly | Tyr | Ile |
| | | | | | 50 | | | | 55 | | | | | 60 |
| Leu | Cys | Leu | Asn | Arg | Ile | Pro | His | Gly | Arg | Lys | Asn | His | Ser | Asp |
| | | | | | 65 | | | | 70 | | | | | 75 |
| Lys | Gly | Glu | Gly | Ala | Val | Pro | Trp | Asn | Met | Lys | Lys | Val | Ser | Met |
| | | | | | 80 | | | | 85 | | | | | 90 |
| Ser | Leu | Asp | Met | Leu | Pro | Gly | Pro | Lys | Pro | Val | Val | Phe | Leu | Gln |
| | | | | | 95 | | | | 100 | | | | | 105 |
| His | Gly | Leu | Leu | Ala | Asp | Ser | Ser | Asn | Trp | Val | Thr | Asn | Leu | Ala |
| | | | | | 110 | | | | 115 | | | | | 120 |
| Asn | Ser | Ser | Leu | Gly | Phe | Ile | Leu | Ala | Asp | Ala | Gly | Phe | Asp | Val |
| | | | | | 125 | | | | 130 | | | | | 135 |
| Trp | Met | Gly | Asn | Ser | Arg | Gly | Asn | Thr | Trp | Ser | Arg | Lys | His | Lys |

| | | | |
|-----------------|---|-----|-----|
| | 140 | 145 | 150 |
| Thr Leu Ser Val | Ser Gln Asp Glu Phe Trp Ala Phe Ser Tyr Asp | | |
| 155 | 160 | 165 | |
| Glu Met Ala Lys | Tyr Asp Leu Pro Ala Ser Ile Asn Phe Ile Leu | | |
| 170 | 175 | 180 | |
| Asn Lys Thr Gly | Gln Glu Gln Val Tyr Tyr Val Gly His Ser Gln | | |
| 185 | 190 | 195 | |
| Gly Thr Thr Ile | Gly Phe Ile Ala Phe Ser Gln Ile Pro Glu Leu | | |
| 200 | 205 | 210 | |
| Ala Lys Arg Ile | Lys Met Phe Phe Ala Leu Gly Pro Val Ala Ser | | |
| 215 | 220 | 225 | |
| Val Ala Phe Cys | Thr Ser Pro Met Ala Lys Leu Gly Arg Leu Pro | | |
| 230 | 235 | 240 | |
| Asp His Leu Ile | Lys Asp Leu Phe Gly Asp Lys Glu Phe Leu Pro | | |
| 245 | 250 | 255 | |
| Gln Ser Ala Phe | Leu Lys Trp Leu Gly Thr His Val Cys Thr His | | |
| 260 | 265 | 270 | |
| Val Ile Leu Lys | Glu Leu Cys Gly Asn Leu Cys Phe Leu Leu Cys | | |
| 275 | 280 | 285 | |
| Gly Phe Asn Glu | Arg Asn Leu Asn Met Ser Arg Val Asp Val Tyr | | |
| 290 | 295 | 300 | |
| Thr Thr His Ser | Pro Ala Gly Thr Ser Val Gln Asn Met Leu His | | |
| 305 | 310 | 315 | |
| Trp Ser Gln Ala | Val Lys Phe Gln Lys Phe Gln Ala Phe Asp Trp | | |
| 320 | 325 | 330 | |
| Gly Ser Ser Ala | Lys Asn Tyr Phe His Tyr Asn Gln Ser Tyr Pro | | |
| 335 | 340 | 345 | |
| Pro Thr Tyr Asn | Val Lys Asp Met Leu Val Pro Thr Ala Val Trp | | |
| 350 | 355 | 360 | |
| Ser Gly Gly His | Asp Trp Leu Ala Asp Val Tyr Asp Val Asn Ile | | |
| 365 | 370 | 375 | |
| Leu Leu Thr Gln | Ile Thr Asn Leu Val Phe His Glu Ser Ile Pro | | |
| 380 | 385 | 390 | |
| Glu Trp Glu His | Leu Asp Phe Ile Trp Gly Leu Asp Ala Pro Trp | | |
| 395 | 400 | 405 | |
| Arg Leu Tyr Asn | Ile Ile Asn Leu Met Arg Lys Tyr Gln | | |
| 410 | 415 | | |

<210> 18
<211> 244
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7512128CD1

<400> 18

| | | | |
|---|-----|-----|----|
| Met Ala Gly Tyr Glu Tyr Val Ser Pro Glu Gln Leu Ala Gly Phe | | | |
| 1 | 5 | 10 | 15 |
| Asp Lys Tyr Arg Tyr Ser Ala Val Asp Thr Asn Pro Leu Ser Leu | | | |
| 20 | 25 | 30 | |
| Tyr Val Met His Pro Phe Trp Asn Thr Ile Val Lys Val Phe Pro | | | |
| 35 | 40 | 45 | |
| Thr Trp Leu Ala Pro Asn Leu Ile Thr Phe Ser Gly Phe Leu Leu | | | |
| 50 | 55 | 60 | |
| Val Val Phe Asn Phe Leu Leu Met Ala Tyr Phe Asp Pro Asp Phe | | | |
| 65 | 70 | 75 | |
| Tyr Ala Ser Ala Pro Gly His Lys His Val Pro Asp Trp Val Trp | | | |
| 80 | 85 | 90 | |
| Ile Val Val Gly Ile Leu Asn Phe Val Ala Tyr Thr Leu Asp Gly | | | |
| 95 | 100 | 105 | |
| Val Asp Gly Lys Gln Ala Arg Arg Thr Asn Ser Ser Thr Pro Leu | | | |

| | | | | | | | | | | | | | | |
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| Leu | Phe | Leu | Ile | Ile | Ala | Asn | Thr | Met | Ala | Phe | Gln | Ser | Pro | Gln |
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| His | Glu | Gly | Cys | Tyr | Leu | Ser | Val | Gly | His | Ser | Gln | Pro | Leu | Glu |
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| Val | Ser | Ala | Leu | His | Thr | Arg | Glu | Lys | Asp | Ala | Asn | Val | Val | Val |
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| Trp | Leu | Gln | Glu | Lys | Asp | Asp | Phe | Ser | Leu | Gly | Asn | Val | His | Leu |
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| Ile | Gly | Tyr | Ser | Leu | Gly | Ala | His | Val | Ala | Gly | Tyr | Ala | Gly | Asn |
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| Phe | Val | Lys | Gly | Thr | Val | Gly | Arg | Ile | Thr | Ala | Ile | Thr | Glu | Val |
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| Leu | Val | Asn | Gln | Asp | Lys | Pro | Ser | Phe | Ala | Phe | Gln | Cys | Thr | Asp |
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| Ser | Gln | Ser | Trp | Tyr | Asn | Leu | Trp | Lys | Glu | Phe | Arg | Ser | Tyr | Leu |
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| Glu | Asp | Leu | Lys | Lys | Lys | Gly | Leu | Ile | Ser | Ser | Asp | Gly | Phe | Cys |
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| Leu | Glu | Leu | Tyr | Gln | Glu | Met | Asp | His | Pro | Leu | Ala | His | Tyr | Phe |
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| Ile | Ser | Ser | Ser | His | Asn | Thr | Tyr | Leu | Thr | Gly | Arg | Gln | Phe | Gly |
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| Ser | Phe | Asn | Glu | Ser | Val | Gly | Leu | Gly | Tyr | Leu | Lys | Thr | His | Ala |
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| Ile | Glu | Phe | Val | Asn | Tyr | Asn | Lys | Arg | Gln | Met | Ser | Arg | Ile | Tyr |
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| Pro | Lys | Gly | Gly | Arg | Val | Asp | Ser | Ser | Asn | Tyr | Met | Pro | Gln | Ile |
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| Phe | Trp | Asn | Ala | Gly | Cys | Gln | Met | Val | Ser | Leu | Asn | Tyr | Gln | Thr |
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| Pro | Asp | Leu | Ala | Met | Gln | Leu | Asn | Gln | Gly | Lys | Phe | Glu | Tyr | Asn |
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| Gly | Ser | Cys | Gly | Tyr | Leu | Leu | Lys | Pro | Asp | Phe | Met | Arg | Arg | Pro |
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| Asp | Arg | Thr | Phe | Asp | Pro | Phe | Ser | Glu | Thr | Pro | Val | Asp | Gly | Val |
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| Ile | Ala | Ala | Thr | Cys | Ser | Val | Gln | Val | Ile | Ser | Gly | Gln | Phe | Leu |
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| Ser | Asp | Lys | Lys | Ile | Gly | Thr | Tyr | Val | Glu | Val | Asp | Met | Tyr | Gly |
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| Leu | Pro | Thr | Asp | Thr | Ile | Arg | Lys | Glu | Phe | Arg | Thr | Arg | Met | Val |
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| Met | Asn | Asn | Gly | Leu | Asn | Pro | Val | Tyr | Asn | Glu | Glu | Ser | Phe | Val |
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| Phe | Arg | Lys | Val | Ile | Leu | Pro | Asp | Leu | Ala | Val | Leu | Arg | Ile | Ala |
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| Leu | Asp | Gly | Leu | Gln | Ala | Gly | Tyr | Arg | His | Ile | Ser | Leu | Arg | Asn |
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| Glu | Gly | Asn | Lys | Pro | Leu | Ser | Leu | Pro | Thr | Ile | Phe | Cys | Asn | Ile |
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| Val | Leu | Lys | Thr | Tyr | Val | Pro | Asp | Gly | Phe | Gly | Asp | Ile | Val | Asp |
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| Ala | Leu | Ser | Asp | Pro | Lys | Lys | Phe | Leu | Ser | Ile | Thr | Glu | Lys | Arg |
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| Arg | Pro | Thr | Thr | Thr | Ala | Ala | Leu | Ala | Ser | Gly | Val | Glu | Ala | Lys |
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| Lys | Gly | Ile | Glu | Leu | Ile | Pro | Gln | Val | Arg | Ile | Glu | Asp | Leu | Lys |
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| Gln | Met | Lys | Ala | Tyr | Leu | Lys | His | Leu | Lys | Lys | Gln | Gln | Lys | Glu |
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| Leu | Asn | Ser | Leu | Lys | Lys | Lys | His | Ala | Lys | Glu | His | Ser | Thr | Met |
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| Gln | Lys | Leu | His | Cys | Thr | Gln | Val | Asp | Lys | Ile | Val | Ala | Gln | Tyr |
| | | | | 845 | | | | | 850 | | | | | 855 |
| Asp | Lys | Glu | Lys | Ser | Thr | His | Glu | Lys | Ile | Leu | Glu | Lys | Ala | Met |
| | | | | 860 | | | | | 865 | | | | | 870 |
| Lys | Lys | Lys | Gly | Gly | Ser | Asn | Cys | Leu | Glu | Met | Lys | Lys | Glu | Thr |
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| Glu | Ile | Lys | Ile | Gln | Thr | Leu | Thr | Ser | Asp | His | Lys | Ser | Lys | Gly |
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<220>
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<212> DNA

<213> Homo sapiens

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<211> 969

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 7514797CB1

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| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
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| tccatgggg | ctgcattggc | ggagggtgtgg | accttgcac | cgccctgtgac | atccggtaact | 600 |
| gtgcccagga | tgc | caggtaagg | aggtggacgt | gggtttggct | gcccgttag | 660 |
| gaacactgca | g | aaggtaatcg | ggaaccagag | ccgggtgttc | ccagacaaag | 720 |
| aggtcatgct | g | ttagcgctgg | cggccgagat | ttccagcaag | agccccgtgg | 780 |
| cgg | caccaagg | aacctgctgt | attcccgcg | ccattcggt | gcccggagac | 840 |
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 <212> DNA
 <213> Homo sapiens

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 <223> Incyte ID No: 7512128CB1

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<212> DNA

<213> Homo sapiens

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